From qrp-l@lehigh.edu Tue Oct 10 10:30:00 1995
From: Aa4xx <aa4xx@nando.net>
Subject: [3979] 40 M Beacon Results
Message-ID: <Pine.SUN.3.90.951009140429.23932H-100000@merlin.nando.net>

Thanks to all who reported on the 500 microwatt beacon Sunday and Monday. Here are the results:

Not a peep -	AA8LF	John
	KV2X	Tom
	WA8LCZ	Byron
Partial copy	NU8N	Jim
Complete copy	KA3WTF	Fran

All of these reports help to put together a meaningful picture. Although conditions are not ideal for this sort of work on 40 meters at this time, it is still surprising to see what a minute amount of power it takes to sustain a path during moderate to good conditions.

We will continue these tests this Winter, when the band quietens down. I'd like to hear from other stations who might be interested in setting up attended microwatt beacons on 40 and 80 meters this Winter. It doesn't necessarily take killer antennas to do this type of work. As a matter of fact, the best effort so far was made with a dipole on one end and an inverted vee on the other end!

72 es happy milliwatting,

Paul, AA4XX

From qrp-l@lehigh.edu Tue Oct 10 10:30:00 1995
From: adams@chuck.dallas.sgi.com (chuck adams)
Subject: [3987] 40M Propagation
Message-ID: <199510092021.UAA25957@chuck.dallas.sgi.com>

Gang,

It's a good possibility that 40M may be awesome tonight, but we'll find out for sure later.

At 2000Z I turned on the Explorer 40M and was tuning around the 7.040 area and then up when I hear W1AW starting a code practice session at 35, 30, etc. Then starting hearing 9's in IL and 0's in MO at 579 and better levels.

Just in case the fox hunts are fix enough, look around the "watering hole" after dark-thirty. (TX talk for after supper and when the sun is down).

>From W6TOY IWTF-I Worked the Fox IHTF-I Heard the Fox
INTF-I Never Heard the Fox   :-)

The above relative to QRPers wanting the possibility of good propagation possibility on 40M.

dit dit
--
Chuck Adams (K5FO CP-60) adams@sgi.com
Box 181150, Dallas, TX 75218-8150

From qrp-l@lehigh.edu Tue Oct 10 10:30:00 1995
From: adams@chuck.dallas.sgi.com (chuck adams)
Subject: [3967] 80M Colorburst References
Message-ID: <199510090207.CAA24603@chuck.dallas.sgi.com>

Gang,

Before I and a number of other individuals spend considerable time, please email me (don't post to the group) a list of references you have for transmitters using the colorburst frequency.

The NorTex group is going to enter a significant number of people into the NE colorburst contest this winter. We ARE gearing up Jim et.al. Be forewarned. Let us know when the games begin.

I personally am looking for a significant plot of land to put up a rhombic aimed at CT from TX. :-)

dit dit
--
Chuck Adams (K5FO CP-60) adams@sgi.com
Box 181150, Dallas, TX 75218-8150

From qrp-l@lehigh.edu Tue Oct 10 10:30:00 1995
From: adams@chuck.dallas.sgi.com (chuck adams)

Subject: [3966] Antennas
Message-ID: <199510090202.CAA24588@chuck.dallas.sgi.com>

Gang,

On the recommendation of Richard Haynes, N5QXF, member of the NorTex Club and this list, I got the book "73 Dipole and Long-Wire Antennas" by Edward M. Noll, W3FQJ, as published by MFJ Enterprises, Inc., Box 494, Mississippi State, MS.

There are enough antennas in here that you should be able to find something that will work for you, if you are going to put up a new antenna and aren't going for the high dollar setup. Although an extra long long-wire will cost you high dollars for the land to have the room to set it up on. :-)

The 73 sections, one for each antenna setup, and the appendices are an easy read. Not much detail, if any, on the workings of the antenna(s), but lots of dimensions and diagrams for each of the antennas.

I really don't know what I paid for the book, as I purchased some other books and magazines at the time and don't have the sales slip handy. It is the stapled back binding, like QRPp, and is 160 pages long. I think price is around $18 or so. MFJ in their infinite wisdom didn't put a price on it and I don't know what Tucker's charged me.

The first one that I wanna play with is #72 (quite by accident a significant number to many on this group). It is what Ed calls a "Two-mast rhombic" where the feed-point and the opposite end are tied to stakes and the side points are the two masts up 45' (about 15M). This makes it easy to play terminated and unterminated for open bidirectional and terminated unidirectional operation. Anyone on this group played with this? The length of one side, i.e. from feed to terminating point is 185', thus requiring over 360' of wire, which isn't going to be all that expensive.

Oh BTW, Ed in a table of Long Long-Wire Lengths has 87/4 wavelengths on 40M as 21402/7=3,058' where I did the math and rounded up. I didn't use a calculator, so forgive me if I err in the calculations. Now 3,058' will require some real estate to setup up. Something for the Zuni's to try at FD 1996. :-)

Any I recommend the book as another fine addition to a ham's library.

dit dit

--
Chuck Adams (K5FO CP-60) adams@sgi.com
Box 181150, Dallas, TX 75218-8150

From qrp-l@lehigh.edu Tue Oct 10 10:30:00 1995
From: "Charles A. Rubenstein" <rubenc@iglou.com>
Subject: [3964] Baseboard dipole?
Message-ID: <Pine.SOL.3.91.951009113339.16060A-100000@iglou2>

Im going to Nashville on Tuesday for a 3 day seminar. Id like to take my NC40A with me. I have a 20ga. wire dipole I made for it. Is it OK to place the dipole along the perimeter of the room? Dont know what will be in the walls of the hotel, but dont think Ill be able to let things hang outside a window. Dont have a tuner BTW. Hope its ok, so I can keep myself occupied in evenings. Dont feel like hanging out at hotel bar. hi hi.
72

Charlie Rubenstein
KB8BWE@N8LHG.#CIN.OH.USA.NA
rubenc@iglou.com

From qrp-l@lehigh.edu Tue Oct 10 10:30:00 1995
From: km@PACT.ORG.PE (Kris Merschrod)
Subject: [3993] Curtis Chip 8044 series
Message-ID: <m0t2Pb9-000AtIC@rcp.net.pe>

Latest info that I have is August 1995, but their data sheet says that the "8044, 8044B 8044M, and 8044bm are obsolete, for replacement only, not new conmstruction." This implies that they probably have replacement of the older ones in stock.

1 800 346-6873

They had\have a neat kit - PCB board, Manual, & 20 pin socket at $35.00 vs. $20 for just the chip.

good luck
kris

From qrp-l@lehigh.edu Tue Oct 10 10:30:00 1995
From: etillona@interserv.com
Subject: [3990] email address WB2QAP
Message-ID: <9510092233.AA12704@m1.interserv.com>

Looking for an email address for Bruce Milne, WB2QAP. Thanks in advance for any
 help.
---
   * Emil J. Tillona   * Ham: KD1F
   * emial: etillona@interserv.com   * QRP ARCI 8328
   * Cluster: KD1F Node   * President Radio Central
   * Packet: KD1F@KC2FD.NLI.NY.USA.NA   * Amateur Radio Club

From qrp-l@lehigh.edu Tue Oct 10 10:30:00 1995
From: CamQRP@aol.com
Subject: [3969] Fall QSO Party
Message-ID: <951009115719_39927383@mail06.mail.aol.com>

Gang -

This coming weekend is the QRP ARCI Fall QSO Party. We've had some hints at
good openings recently, so maybe luck will shine on us this time. Rules are
as follows:

Date/Time:
Oct. 14, 1995, 1200Z through Oct. 15, 2400Z

Exchange:
Member - RST, State/Province/Country, ARCI Number
Non-Member - RST, State/Province/Country, Power Out

QSO Points:
Member = 5 Points
Non-Member, Different Continent = 4 Points
Non-Member, Same Continent = 2 Points
The same station may be worked on more than one band for QSO point credit.

Multiplier: SPC (State/Province/Country) total for all bands. The same state
may be worked on more than one band for S/P/C credit.

Power Multiplier:
 0 - 250 MW = X 15; 250 MW - 1 W = X 10;   1 W - 5 W = X 7; Over 5 W = X
1.

Suggested Frequencies:

	GENERAL	NOVICE
160 Meters	1810 KHz	
80 Meters	3560 KHz	3710 KHz
40 Meters	7040 KHz	7110 KHz
20 Meter	14060 KHz	
15 Meters	21060 KHz	21110 KHz
10 Meters	28060 KHz	28110 KHz
6 Meters	50060 KHz	

Score:
QSO Points (total for all bands) X SPCs (total for all bands) X Power Multiplier.

Entry may be an All-Band, Single Band, Hi-Band (20M, 15M, 10M and 6M) or Lo-Band (160M, 80M and 40M).
Send an SASE for a summary and sample log sheets. Include an SASE with your entry for a copy of the results. Results will be published in the next available issue of the QRP ARCI Quarterly.
Entries are welcome via E-Mail to CamQRP@aol.com, or by mail to:
Cam Hartford, N6GA 1959 Bridgeport Ave. Claremont, CA 91711

Good Luck and I hope to work you in the test - 72/73 de N6GA

From qrp-l@lehigh.edu Tue Oct 10 10:30:00 1995
From: Mike Robinson <miker@cc.com>
Subject: [3986] Foundaloop.
Message-ID: <9510092006.AA23127@voder.nsc.com>

Steve Hideg showed me where the loop
drawing is. No one else need respond.

Thanks.

=-=
7.3 de Michael aa0ub | QRP:
miker@cc.com Norcal #857 CQC #180 | "UR HB 5W FB 72"
=-=

From qrp-l@lehigh.edu Tue Oct 10 10:30:00 1995
From: adams@chuck.dallas.sgi.com (chuck adams)
Subject: [3968] FOX: FOXHUNT WEEK #2

Message-ID: <199510090142.BAA24577@chuck.dallas.sgi.com>

Gang,

For this week the schedule is:

October 8, 1995 --
    Tuesday October 10,1995 --- 9-11EDT N2CX Joe
    Thursday October 12,1995 --- 9-11EDT WA4NID Dave

They will post if they will be working Novice Freqs. Smitty
said that during his 30min stint that he only worked three
stations. BTW Smitty set a new record on the number worked
in two hours as a fox. Good job Smitty and the NorTex Club
is happy to have him as a member.

I'll be posting standings at the end of every multiple of
3, thus the end of the third, sixth, nineth, etc. weeks.

dit dit es gl
--
Chuck Adams (K5FO CP-60) adams@sgi.com
Box 181150, Dallas, TX 75218-8150

From qrp-l@lehigh.edu Tue Oct 10 10:30:00 1995
From: an966@Freenet.UCHSC.EDU (Gene McGahey)
Subject: [3989] FOX?
Message-ID: <199510092200.QAA08162@Freenet.UCHSC.EDU>

After reading msg from K5FO & N2CX; is the FOX via N2CX 10/9 local time or
10/10 UTC time? Reference has been made both tonight and tomorrow night
local times? Tnx fer the response.
73, Geno AL7GQ/0 Nr Denver

From qrp-l@lehigh.edu Tue Oct 10 10:30:00 1995
From: dgf@netcom.com (David Feldman)
Subject: [3992] FS: Two QRP rigs
Message-ID: <199510092304.QAA05662@netcom14.netcom.com>

Posting these two QRP rigs for sale before they go to the swapmeet in Denver
on 10/22. Both are working fine but don't fit my current needs/interests.

Yaesu FT301SD, 160-10M (no WARC), 10 watts out, SSB/CW/AM/RTTY, digital readout, includes narrow CW filter, microphone, power cord, copy of manual. Works fine on all bands. QRP version of the 100-watt FT301D.
$275 shipped CONUS.

Digitrex MPX/MINI, 20M mono-bander, 5-7 watts out, DSB/CW (yes DSB, it's a direct conversion rig), digital readout, microphone, power cord, copy of manual. Works fine - very small and lightweight rig. $100 shipped CONUS.

Pls advise any interest by e-mail to dgf@netcom.com.

73 Dave WB0GAZ dgf@netcom.com

From qrp-l@lehigh.edu Tue Oct 10 10:30:00 1995
From: william.redfearn.cmwdr01@nt.com
Subject: [3973] FS:MFJ-9030
Message-ID: <"2427 Mon Oct 9 11:59:37 1995"@nt.com>

For Sale:

MFJ 9030 30 meter CW transceiver

Almost NEW condition, works fine.
with manual and box.
$125.00 shipped.

Only selling to help finance an OHR 400.
73 - Dave.

==========
Dave Redfearn, Sr RF Systems Engineer NORTEL RTP, NC.
ph.(919) 992-3925 email: cmwdr01@nt.com qrl? de N4ELM/qrp

All opinions are my own, no one else wants them.

From qrp-l@lehigh.edu Tue Oct 10 10:30:00 1995
From: eighmy@scott.net
Subject: [3974] FT-900 on QRP?
Message-ID: <199510091716.MAA31771@koala.scott.net>

Has anyone used the FT-900 as a QRP rig? Does it require any modifications for QRP?

Tnx es 72,
Gene
WD4MPS

From qrp-l@lehigh.edu Tue Oct 10 10:30:00 1995
From: etillona@interserv.com
Subject: [3991] Heathkit SP-99 Sold
Message-ID: <9510092251.AA13571@m1.interserv.com>

I have a couple of commitments for the HW-9 SP-99 Speaker. If the deal fails to come together, I will post the item again. Thanks

---

* Emil J. Tillona
* emial: etillona@interserv.com
* Cluster: KD1F Node
* Packet: KD1F@KC2FD.NLI.NY.USA.NA
* Ham: KD1F
* QRP ARCI 8328
* President Radio Central
* Amateur Radio Club

From qrp-l@lehigh.edu Tue Oct 10 10:30:00 1995
From: pcalcand@sescva.esc.edu (PETER CALCANDY)
Subject: [3988] HELP
Message-ID: <95100917414069@sescva.esc.edu>

If you reside near Cleveland Ohio or can get the Cleveland Plains Dealer, please contact me privately. Sri for the BW but it is very important to me.
tnx Peter N2KPY

From qrp-l@lehigh.edu Tue Oct 10 10:30:00 1995
From: kd7s@valleynet.com (Bill Jones)
Subject: [4001] HW-8 Low Power Fix(?)
Message-ID: <199510100338.UAA15680@sierra.valleynet.com>

I recently acquired a another HW-8 which exhibited slightly substandard r.f. output on 80 meters
after a by-the-book alignment session. The recent post to the group pretty well confirmed what I
had already suspected. I quote parts of it here:

"On 80 and 40, the HW-8 uses low permeability

(Ui 40) ferrite cores in the output networks. They can, and DO,
change characteristics, and I currently have ten confirmed cases over
the years.....power output on one or both bands is substantially low
and cannot be brought back to normal by retuning or other fixes.......The
solution is simple--replace them with new cores, wound with the
same number of turns; my article has details...."

I intend to remedy the situation in an altogether manner. I do not wish to follow the Heath
convention of placing a bandpass filter (with its associated *Loading* capacitor) at the output of
Q9, the power amplifier. Instead, I will replace the existing filters with individual five-element, bi-
lateral, low-pass filters. In addition, I plan to incorporate W7ZOI's series tuned LC circuit at the
input of the filter(s) (along with two back-to-back switching diodes) to get rid of the antenna
relay. With some adjustment in the keying and break-in delay circuitry, I should have relayless
QSK, no loading control and predictible output power on all bands.

If anyone would care to comment on this approach, I would be pleased to hear from you.
==========
Bill Jones - KD7S
Sanger, California
Reply to kd7s@valleynet.com
==========

From qrp-l@lehigh.edu Tue Oct 10 10:30:00 1995
From: SHUSTER5647@delphi.com
Subject: [4000] New Explorer II clarification - OHR Group Purchase
Message-ID: <01HW94MLZDMQ8Y9S4V@delphi.com>

In the group purchase announcement I posted tonight, I
described an improved OHR Explorer II that will be available in
about 3 weeks. In the text, I wrote that it is a "2/3 watt
superhet".

That "2/3" means "two to three watts" output, NOT two thirds
of a watt. I think it can be adjusted to QRPp levels. Most of
us probably know what I meant, but I decided to post this
message to make that clear.

TU es 73,

John Shuster
KC7CKP

From qrp-l@lehigh.edu Tue Oct 10 10:30:00 1995
From: ve1hdw@fox.nstn.ns.ca (Harvey winters)
Subject: [3985] Now a qrp`er
Message-ID: <199510091948.QAA09456@Fox.NSTN.Ca>

Hey! Fellas I made my first true qrp contact this afternoon
with K1GDE in Lynn,Mass.He to was running qrp.

I used my mfj 9040 and a dipole 12 feet high.Now
if I can tune this Explorer 30.

73 hope to work you soon

Harvey
Harvey D Winters VE1HDW
ve1hdw@fox.nstn.ns.ca
G-QRP #8973 NE397

From qrp-l@lehigh.edu Tue Oct 10 10:30:00 1995
From: Jeff Gold <JMG@tntech.edu>
Subject: [4010] OHR purchase and Norcal for sale
Message-ID: <01HW9OFL6RW291Y2DX@tntech.edu>

Wow,

just read the notice about the OHR group purchase..all I can say
is that the price on the 400 is a bargain.

I have a second round Norcal 40 (think it is really the 40A) that
I originally purchased through the club. It is a great rig and has
worked very well since I had it. I just built and am testing the
Wilderness Radio version of the same rig. Don't think I need two
of the same.. so I am thinking about selling the norcal (in
aluminum case.. label machine number of dial (fairly accurately
calibrated)

73,72
Jeff, AC4HF

From qrp-l@lehigh.edu Tue Oct 10 10:30:00 1995
From: "Dennis Blanchard, K1YPP, CINCC" <blanchard@nac.ENET.dec.com>
Subject: [3970] Parallel diodes...
Message-ID: <9510091541.AA08636@us1rmc.bb.dec.com>

One interesting phenomenon occurs when one puts diodes in parallel to carry more current. In most high current diodes, as the current increases (and therefore the device temperature as well) the forward voltage drop also increases. As this occurs, if there is another diode in parallel, the next diode will start to take up more of the current because it will no doubt be at a lower forward voltage drop. Three diodes will in turn do the same thing. Although it is not a suggested method, it does to some degree, work as intended. There is not a good current balance between all devices, but to some degree the current sharing does occur. Try it.

I must comment that I don't believe I would want to use this method to charge my gelled-electrolyte batteries, but then I'm biased anyway. :>)

72'

Dennis, K1YPP

From qrp-l@lehigh.edu Tue Oct 10 10:30:00 1995
From: okasb@shoe.mtv.gtegsc.com (Bob Okas)
Subject: [3972] Q-Dope Source
Message-ID: <9510091642.AA13727@shoe.mtv.gtegsc.com>

Hello All,
    For those searching for Q-dope, there are several bottles of the GC-brand available at Halted Specialties Co. Saw them with my own eyes Saturday. They're located at 3500 Ryder St, Santa Clara, CA. 95051. Phone: (408) 732-1573, Fax: (408) 732-6428. I have no pecuniary interest wih said organization, just a satisfied customer.

Bob - N3MBY

From qrp-l@lehigh.edu Tue Oct 10 10:30:00 1995
From: ah231@detroit.freenet.org (Bernard F. Gaffney Jr.)
Subject: [3975] QRP Phone
Message-ID: <199510091728.NAA17181@detroit.freenet.org>

Most of the stuff I've read/heard about QRP seems to indicate it's mostly CW QRP out there. I'd like to know how common SSB phone QRP is? Would it be worth the effort, in your opinion, to set up a SSB QRP(HF) phone station? Or would I be mainly talking to dead air?

Thanks for any/all input.

--

Bernard F. Gaffney, Jr.
n8pvz@amsat.org
WIN 95 Shrinkwrap BETA Tester

From qrp-l@lehigh.edu Tue Oct 10 10:30:00 1995
From: Jeff Gold <JMG@tntech.edu>
Subject: [4009] QRP SSB
Message-ID: <01HW9O609K8291Y2DX@tntech.edu>

About QRP phone and QRP in general.. sure wish people would stop mystifying using low power.. its what we are suppose to be doing..

I worked QRP/SSB mobile with an Old Ten Tec Argonaut 509 for a few years... made many contacts and had no problem even when driving around town. Speaking of antenna loss.. was using a Hustler for a long time before I started testing mobile antennas.

I have worked QRP/SSB in big contests (including Field Day) and have worked a bunch of DX and Done a lot of ragchewing.

I had one of those MFJ 20M SSB for a while.. it was GREAT.. something about it made it really good even during contest conditions. Sure the VFO drifted.. but I still made large quantities of DX and US QSOs

73

Jeff, AC4HF

From qrp-l@lehigh.edu Tue Oct 10 10:30:00 1995
From: amarriot@Direct.CA (Albert Daniel Marriott)
Subject: [3998] QRP station for sale
Message-ID: <199510100114.SAA10677@fun.direct.ca>

I have a Ten Tec Argonaut 505 for sale.
Including manual and microphone.
Price: $150. I ship continental US and Canada.
Dan, VE7CTN

Email if interested: amarriot@direct.ca

From qrp-l@lehigh.edu Tue Oct 10 10:30:00 1995
From: Dale Hall <102603.30@compuserve.com>
Subject: [4002] QRP transceiver wanted
Message-ID: <951010040421_102603.30_HHU56-1@CompuServe.COM>

I have been a QRPer for years. But, right now I am without any regular HF rig; QRP or QRO. So, I am looking for a QRP transceiver; something like an HW-8, but not exclusively. It should at least have 40 meters, but other bands are OK.
Tnx 72 de Dale, KB0WZ

From qrp-l@lehigh.edu Tue Oct 10 10:30:00 1995
From: Bill Acito 09-Oct-1995 1439 <acito@asdg.ENET.dec.com>
Subject: [3982] QRP+ and JPS DSP
Message-ID: <9510091842.AA19898@us1rmc.bb.dec.com>

> I posted a quick note last week on JPS DSP's. I have the NIR-12,
> and have been using it with my QRP+ (yes, the SCAF is more than
> adequate, but I have been checking it's performance on SSB, too).
>
> It appears there is an issue with the 40MHZ clock of the JPS unit
> and the 50MHZ IF of the QRP+. The issues as described:
>
> Issue: A 1800Hz constant audible tone (whine) can be heard when
>   NIR-12 is connected to rig.
>
> Info:

-Tone is only heard when rig is connected, and NIR-12 power is on. When connected and power off (bypass), whine is gone.

Operation of the NIR-12 seems normal other than the presense of the tone. The NIR-12 has been placed in different locations near and away from the rigs to no avail.

-the noise starts as soon as the tip of the 1/8" stereo plug touches the grounded lip of the earphone jack on the QRP+

-NIR-12 is connected to the earphone jack of rig using Hi-Z setting. Cable is an old stereo headphone cord soldered to an RCA jack (for input to the NIR-12).

-Tone is present if rig is connected to same supply as rig, or a different power supply (Both were/are Astron R7's, 13.8V)

-NIR-12 will actually filter out the tone by using the notch or bandpass filters

I'm going to try an isolation transformer in the input line. Any other ideas?

b

. . . . . - I own my own words - . . . . . .
Bill Acito
acito@asdg.enet.dec.com
|d|i|g|i|t|a|l| Digital Equipment Corporation Hudson, MA

KC1GS .:. qrp-ne .:. qrp-arci .:. norcal .:. arrl life .:.

From qrp-l@lehigh.edu Tue Oct 10 10:30:00 1995
From: Rev George Dobbs <g3rjv@gqrp.demon.co.uk>
Subject: [3996] QRP-L
Message-ID: <8840@gqrp.demon.co.uk>

Gentlemen
I have been reading the "bandwidth" material
After resting for while I have joined the list again
But afraid I must leave again
There is just simply too much surplus stuff appearing
I may dip in again in a few weeks

in the meantime if anyone has material of direct value to the G QRP Club
please use my personal address
Best Wishes to All
--

George Dobbs G3RJV "It is vain to do with more,
G-QRP Club what can be done with less."
---------- William of Occam (1290-1350)

From qrp-l@lehigh.edu Tue Oct 10 10:30:00 1995
From: SHUSTER5647@delphi.com
Subject: [3997] QRP-L - OHR GROUP BUY !
Message-ID: <01HW90ZBEX3M922RTP@delphi.com>

---
* * * OAK HILLS RESEARCH * * *
---
* * * QRP-L GROUP BUY * * *

This started out to be an OHR 400
group purchase, but Dick has put
a nice program together for our
list that involves ALL his kits.
Here are the details:

What Dick needs:

A minimum of 10 people to buy a radio or
a wattmeter. (Keyer kits & S.C.A.F.
don't count towards the minimum).

What We get:

1. 20% off all OHR Kits.

2. Reduced shipping/handling charges.

3. Special intro price* on a new kit.

Here are the details:

* Our QRP-L Discounted Price List *

OHR Kit	List Price / QRP-L 20% off
OHR 400	$320 / $256
Classic	$220 / $176
Spirit II	$170 / $136
Explorer II (new!)	$TBA / $80*
Sprint II	$90 / $72
Wattmeter	$80 / $62
S.C.A.F.	$70 / $56
Iambic key kit	$40 / $32

* The new Explorer II will be available in about 3 weeks. It's a 2/3 watt superhet with improved-high performance AGC and variable bandwidth. 30m, 40m, & 80m. Dick has designed this kit to be easy to build and align. Its affordable price should make it a popular club kit and provide the first-time builder with a high quality transceiver for less than $125.

Shipping and Handling:

USA:	$5.50 / $4.00 for us
Canada:	$9.00 + $1.75 ins. / $8.00 insured!

Payment:

Once I confirm that we have 10 people, all payments will be made directly to OHR by individuals. I will send a master list to Dick via email. ** Mention / mark your payment with "QRP-L". **

Please respond to me with your order. I'll confirm your order by email. Once we get 10 people, I'll send the list to OHR and let you know to send your payment. I think we'll easily get our minimum considering the high praise the OHR 400 is getting and the big discount we've landed. (I'm getting a Wattmeter and that Explorer II in 40 meters looks tempting. An OHR superhet for $80? How can I resist? I know, my son and I will

build it, Dear. Yeah, that sounds good.)

Payment Options:

Check or Money Order to:

Oak Hills Research
20879 Madison St.
Big Rapids, MI 49307

Visa / M/C :

Phone: 616/796-0920
Fax: 616/796-6633
Email: ohrqrp@aol.com

If you need a catalog or info on a
specific kit, call Dick, 9-6 CST.

Deadline:

Please make your decision BEFORE THIS
FRIDAY 13TH!!! That way, we'll be able
to get this program going, get kits into
people's hands, guarantee good solder
flow, good propagation, and lucky DX!

John Shuster
KC7CKP
360/876-1603 (Seattle area)

email: shuster5647@delphi.com
        jshuster@aol.com

P.S. If you know hams who might be
interested in getting in on this deal but
are not on the list...I doubt if Dick would
mind.

From qrp-l@lehigh.edu Tue Oct 10 10:30:00 1995
From: paul1@wizard.ucs.sfu.ca (Paul Erickson)
Subject: [3977] Thanks

Message-ID: <9510091745.AA08749@wizard.ucs.sfu.ca>

Thanks to everyone who responded to my request for a HW-8 manual and
my technical questions.

cheers, Paul
VE7CQK

From qrp-l@lehigh.edu Tue Oct 10 10:30:00 1995
From: Bill Acito 09-Oct-1995 1448 <acito@asdg.ENET.dec.com>
Subject: [3984] TS130
Message-ID: <9510091847.AA20157@us1rmc.bb.dec.com>

> Anyone know a source for 'narrow' filters for a Kenwood TS130?
> Either original or after market.
>
> Anyone know how to access the ALC circuit, or a drive pot, to
> get one down to QRP levels? If will go below 5 watts now, but I
> want to make the setting less sensative.
>
> Nobody has a spare auxillary VFO for one laying around, do they?
> :-)
>
> b

. . . . . . - I own my own words - . . . . . .
Bill Acito
acito@asdg.enet.dec.com
|d|i|g|i|t|a|l| Digital Equipment Corporation Hudson, MA

KC1GS .:. qrp-ne .:. qrp-arci .:. norcal .:. arrl life .:.

From qrp-l@lehigh.edu Tue Oct 10 10:30:00 1995
From: g3rjv@gqrp.demon.co.uk (Rev George Dobbs)
Subject: [4003] Warning - read this VIRUS ALERT (fwd)
Message-ID: <8890@gqrp.demon.co.uk>

Forwarded message follows:

> From @relay-1.mail.demon.net:cookes@relay4.jaring.my Tue Oct 10 01:31:55 1995
> Received: from punt.demon.co.uk by gqrp.demon.co.uk with SMTP
>   id AA8854 ; Tue, 10 Oct 95 01:31:49 BST
> Received: from punt-1.mail.demon.net via puntmail for g3rjv@gqrp.demon.co.uk;
>   Mon, 09 Oct 95 14:26:51 GMT
> Received: from relay-1.mail.demon.net by punt-1.mail.demon.net id aa07021;
>   9 Oct 95 15:26 +0100
> Received: from [192.228.128.14] by relay-1.mail.demon.net id aa09118;
>   9 Oct 95 15:25 +0100
> Received: from j3.kch2.jaring.my (j3.kch2.jaring.my [161.142.221.241]) by
relay4.jaring.my (8.6.5/8.6.12) with SMTP id WAA12109; Mon, 9 Oct 1995 22:22:10
+0800
> Date: Mon, 9 Oct 1995 22:22:10 +0800
> Message-Id: <199510091422.WAA12109@relay4.jaring.my>
> X-Sender: cookes@pop4.jaring.my
> X-Mailer: Windows Eudora Version 1.4.4
> Mime-Version: 1.0
> Content-Type: text/plain; charset="us-ascii"
> To: g3rjv@gqrp.demon.co.uk
> From: "Siong Teck Cheun @ Joseph" <cookes@pc.jaring.my>
> Subject: Warning - read this VIRUS ALERT
> Cc: jims@teleport.com
> Status: R
>
>
>
> >>Hi ,
> >>
> >>>Just a message from a friend from down under "Stephylococci"
> >><SMCHO3@mfs01.cc.monash.edu.au>
> >>>>
> >>>>Please watch for this, eventhough this is only happening in Australia
> >>>>for the moment.
> >>>>Doubtless it will spread quickly soon.
> >>>>
> >>>>==========
> >>>>
> >>>>   Something we received from our friends about a virus circulated via
> >>>>Internet. Please read the following.
> >>>>
> >>>>There is a computer virus that is being sent across the Internet. If you
> >>>>>receive an e-mail message with the subject line "Good Times", DO NOT read
> >>>>>the
> >>>>>message, DELETE it immediately. Please read the messages below.
> >>>>>

> >>>>>Some miscreant is sending e-mail under the title "good times" nation-wide.
> >>>>>If you get anything like this, DON'T DOWN LOAD THE FILE! It has a virus
> >>>>>that
> >>>>>rewrites your hard drive, obliterating anything on it. Please be careful
> >>>>>and forward this mail to anyone you care about--I have.
> >>>>>
> >>>>>**********Forwarded Message**********
> >>>>>WARNING!!!!!!!!!: INTERNET VIRUS
> >>>>>
> >>>>>The FCC released a warning last Wednesday concerning a matter of major
> >>>>>importance to any regular user of the InterNet. Apparently, a new
> >>>>>computer virus has been engineered by a user of America Online that is
> >>>>>unparalleled in its destructive capability. Other, more well-known viruses
> >>>>>such as Stoned, Airwolf, and Michaelangelo pale in comparison to the
> >>>>>prospects of this newest creation by a warped mentality. What makes this
> >>>>>virus so terrifying, said the FCC, is the fact that no program needs to be
> >>>>>exchanged for a new computer to be infected. It can be spread through the
> >>>>>existing e-mail systems of the InterNet. Once a
> >>>>>computer is infected, one of several things can happen. If the computer
> >>>>>contains a
> >>>>>hard drive, that will most likely be destroyed.   If the program is not
> >>>>>stopped, the computer's processor will be placed in an nth-complexity
> >>>>>infinite binary loop -
> >>>>>which can severely damage the processor if left running that way too
> >>>>>long. Unfortunately, most novice computer users will not realize what
> >>>>>is
> >>>>>happening until it is far too late.
> >>>>>
> >>>>>Luckily, there is one sure means of detecting what is now known as the
> >>>>>"Good Times" virus. It always travels to new computers the same way in a
> >>>>>text e-mail message with the subject line reading simply "Good Times".
> >>>>>Avoiding infection is easy once the file has been received - not reading
> >>>>>it.
> >>>>>The act of loading the file into the mail server's ASCII buffer causes the
> >>>>>"Good Times" mainline program to initialize and execute. The program is
> >>>>>highly intelligent - it will send copies of itself to everyone whose e-mail
> >>>>>address is contained in a received-mail file or a sent- mail file, if it
> >>>>>can
> >>>>>find one. It will then proceed to trash the computer it is running on. The
> >>>>>bottom line here is - if you receive a file with the subject line "Good
> >>>>>Times", delete it immediately!   Do not read it!   Rest assured that
> >>>>>whoever's name was on the "From:" line was surely struck by the virus.
> >>>>>Warn your friends and local system users of this newest threat to the
> >>>>>InterNet! It could save them a lot of time and money.
> >>>>>
> >>>>
> >>>>   Take care,
> >>>>

> >>>>   Siong 9M8ST
> >>>>
> >>>>
> >>>>
> >>>>
> >>>>
> >>
> >>   From the land of the Hornbills on Borneo Island
> >>
> >>
> >>
> >>
> >>
> >>
> >>
> >>
> >
>
>   From the land of the Hornbills on Borneo Island
>
>
>
>
>
>
>
>

--
George Dobbs G3RJV
G-QRP Club

"It is vain to do with more,
 what can be done with less."
-- William of Occam (1290-1350)

From qrp-l@lehigh.edu Tue Oct 10 10:30:00 1995
From: paxton@sound.net (frank paxton iii)
Subject: [3965] what IS the kcl !?!?!?
Message-ID: <199510091542.KAA00954@sound.net>

pardon my utter stupidity, but what the heck IS THE KCL ?
ng0n.

From qrp-l@lehigh.edu Tue Oct 10 10:30:00 1995

From: Mike Robinson <miker@cc.com>
Subject: [3983] Wherezaloop?
Message-ID: <9510091856.AA20288@voder.nsc.com>

Where is the loop graphics, Jess N0TFI,
created?

=-=
7.3 de Michael aa0ub | QRP:
miker@cc.com Norcal #857 CQC #180 | "UR HB 5W FB 72"
=-=

From qrp-l@lehigh.edu Tue Oct 10 10:30:00 1995
From: "Stan Goldstein, N6ULU" <stan@cruzio.com>
Subject: [3971] Re: antennas
Message-ID: <199510091630.JAA04202@mail5.netcom.com>

Hope your new antenna gets up soon.

Sounds like you're getting serious, and intend to become the hare !
Beware this tortise has 9 countries thanks to the African opening
last night which netted me Ray, 7p8sr and Swaziland, 3da0ca.

Actually the thought of you putting up a rhombic has me scared.. guess
I'd better work as many now as I can .

Any word on Pacificon yet ?

72/9 Stan

--
Stan Goldstein

From qrp-l@lehigh.edu Tue Oct 10 10:30:00 1995
From: rgobrick@public.compusult.nf.ca (Robert J. Gobrick)
Subject: [3999] Re: Bandwidth, badges and badgers
Message-ID: <199510100144.XAA30482@public.compusult.nf.ca>

Yeaaaa - Nils is back. I was getting worried that the trials and

tribulations of the academia consumed him - summer was a lot of fun with the Nils words of wisdom gushing forth..

I will delete a lot of his words in order to save MORE bandwidth...

73/72 Bob VO1DRB/WA6ERB

PS: and I DID trim my signature line a while back at the request of a nice ham who said that my signature line was so long it made his screen scoll by so fast that he missed speed reading the text.

>My, my, didn't that little comment about bandwidth eat up a bunch of
>space time here on the ol' list? What a marvelous example of rhetorical
>reaction. But then, that seems to have been the point.
>

 ____
| Bob Gobrick - VO1DRB/WA6ERB/VE2DRB - Newfoundland, Canada |
| QRPer Galore - ARCI, GQRP, NORCAL, NEQRP, COQRP, MIQRP, NWQRP |
| Internet: rgobrick@public.compusult.nf.ca |
| bgobrick@terra.nlnet.nf.ca |
| Compuserve: 70466.1405@compuserve.com |
|____|

From qrp-l@lehigh.edu Tue Oct 10 10:30:00 1995
From: JDuffy@aol.com
Subject: [3976] Re: Baseboard dipole?
Message-ID: <951009133402_119630687@emout04.mail.aol.com>

I think you'll have a problem laying the dipole against the wall. Most commercial buildings use metal studs. Laying dipoles against the wall, on the floor, will reduce your signal on transmission and reception and cause matching problems due to the resultant inductance.

Regards,

Duffy - WB8NUT

From qrp-l@lehigh.edu Tue Oct 10 10:30:00 1995
From: "Charles A. Rubenstein" <rubenc@iglou.com>
Subject: [3978] Re: Baseboard dipole?

Message-ID: <Pine.SOL.3.91.951009140124.25374A-100000@iglou2>

On Mon, 9 Oct 1995 JDuffy@aol.com wrote:

> I think you'll have a problem laying the dipole against the wall. Most
> commercial buildings use metal studs. Laying dipoles against the wall, on
> the floor, will reduce your signal on transmission and reception and cause
> matching problems due to the resultant inductance.
>
Well, What about laying the leg attached to gnd on the xcvr on the floor
in random fashion, and then suspending the driven leg in the air from
curtain rod and door?

Ive even though abt laying gnd leg on floor and putting driven element
out window on helium baloon at night.

Charlie Rubenstein
KB8BWE@N8LHG.#CIN.OH.USA.NA rubenc@iglou.com

From qrp-l@lehigh.edu Tue Oct 10 10:30:00 1995
From: PaulKB8N@aol.com
Subject: [3994] Re: Computer Power Supply - TNX
Message-ID: <951009201152_40346441@emout06.mail.aol.com>

Notebook supplies that I have used are of the switching type and are
extraordinarily noisey, as most are encased in plastic with no shielding.
 Paul, KB8N

From qrp-l@lehigh.edu Tue Oct 10 10:30:00 1995
From: JEVERHART@cayman.vf.mmc.com
Subject: [3995] RE: FOX?
Message-ID: <951009202808.2101d917@carib.vf.mmc.com>

Geno you wrote:

>After reading msg from K5FO & N2CX; is the FOX via N2CX 10/9 local time or
>10/10 UTC time? Reference has been made both tonight and tomorrow night
>local times?   Tnx fer the response.
>73, Geno AL7GQ/0 Nr Denver

I apologize for some confusion I may have caused. My first message had a subject line with the incorrect date (but Oct 8, not Oct 9.) The corrected message went out 6 minutes later - hoped everyone would catch it, but apparently not.

Chuck's message stated out that the operation was to be on October 10...

Anyway, here is a partial repeat of my corrected message. I think it is pretty clear on date and time. If you can't believe my message (since I'm the fox), who can you believe :-) ?

_____Message Repeat Follows_____

As someone commented the other day, Tuesday night, October 10 it's my turn in the barrel. I will operate on the following schedule:

 9:00 pm - 9:30 pm (EDT) 7.04 MHz +/-for QRM
 9:30   - 10:00   7.11 MHz +/-
10:00   - 11:00   7.04 MHz +/-

Note that the times are Eastern Daylight Savings Time. You do the conversion to your local clock!

_____End of Repeat_____

I'll certainly look for you tomorrow!

72/73,

Joe E., N2CX

From qrp-l@lehigh.edu Tue Oct 10 10:30:00 1995
From: prvalko <prvalko@Oakland.edu>
Subject: [3981] Re: FT-900 on QRP?
Message-ID: <Pine.OSF.3.91.951009142443.17383A-100000@saturn.acs.oakland.edu>

On Mon, 9 Oct 1995 eighmy@scott.net wrote:

> Has anyone used the FT-900 as a QRP rig? Does it require any
> modifications for QRP?

I have an FT-900 and it works very well at low power levels simply by keeping the RF Output control fully counterclockwise. Mine runs 2W out.

73 =paul= wb8zjl

ObNC40a - Operating the FT-900 at 2w is not nearly as satisfying as
runnning the NorCal 40a though.

From qrp-l@lehigh.edu Tue Oct 10 10:30:00 1995
From: Harry_Chase@smtpgwy.windata.com (Harry Chase)
Subject: [3962] Re my post on GEL Cell charging
Message-ID: <9509098132.AA813258953@smtpgwy.windata.com>

With paralleled diodes in the charger, you may not get the benefit you
expect from higher current handling than a single diode. Unless
they are all matched devices, (unlikely in a Far-east import consumer
device!!), you will have one that has a lower junction "turn-on"
voltage than the others, and it may hog most of the current. If the
diodes are rated 1A, do not assume that 3 in parallel will happily
take 3A... A smoke show may result!

Harry
WA1VVH

From qrp-l@lehigh.edu Tue Oct 10 10:30:00 1995
From: JEGGER <E7E3EGG@TOE.TOWSON.EDU>
Subject: [3963] Re: Narrownig The Bandwidth
Message-ID: <01HW8F2R41T88WXTM7@TOE.TOWSON.EDU>

Hey guys (those critical of Kris's suggestions): Can't you tell the
difference between possible suggestions for improvement, and dictatorial
commands? Lighten up, please!
-- John K3GHH

From qrp-l@lehigh.edu Tue Oct 10 10:30:00 1995
From: "Gregory S. Taylor" <GTAYLOR@TAEX003N.tamu.edu>
Subject: [3980] Re: QRP Phone
Message-ID: <151245D0DE6@taex003n.tamu.edu>

> Most of the stuff I've read/heard about QRP seems to indicate it's mostly
> CW QRP out there.
Probably

> I'd like to know how common SSB phone QRP is?

Good question....

> Would it be worth the effort, in your opinion, to set up a SSB QRP(HF) phone
> station? Or would I be mainly talking to dead air?

Depends on what you mean by dead air....lots of qro folks to talk to,
all other factors being equal, its harder to rag chew than on cw
tho.....sure works for DX and contests, look at the listings.....if you
just want 2x qrp could involve much more looking than operating.....

Greg, KDF4HZ

****
Dr. Gregory S. Taylor   !MAIL: 110 Dairy Science Building
Extension Program Leader for   !   College Station, TX 77843-2124
  Community Development   !VOICE: 409-845-4445
Texas Agricultural Extension Service!FAX: 409-847-8744
Texas A&M University System   !EMAIL: Reply or g-taylor4@tamu.edu
****

From qrp-l@lehigh.edu Tue Oct 10 10:30:00 1995
From: prvalko <prvalko@Oakland.edu>
Subject: [4011] Re: QRP station for sale
Message-ID: <Pine.OSF.3.91.951010101019.18073B-100000@saturn.acs.oakland.edu>

On Mon, 9 Oct 1995, Albert Daniel Marriott wrote:

> I have a Ten Tec Argonaut 505 for sale.
> Including manual and microphone.
> Price: $150. I ship continental US and Canada.
> Dan, VE7CTN

HOLY QRP BATMAN!!! If about twenty of you guys didn't jump all over this
deal I'll eat my PM-1!!!

In the slightest chance it's still available consider it sold.

73 =paul= wb8zjl

From qrp-l@lehigh.edu Tue Oct 10 10:30:00 1995
From: jps@kodak.com (John P. Spoonhower)
Subject: [4007] Re: thermal noise list
Message-ID: <9510101204.AA02548@lumi.Kodak.COM>

Nils, you can post to the thermal noise list by
sending CQ on 30 meters....you're right it has been
pretty bad lately.
72, 73,....John
kc2du
spoon@kodak.com

From qrp-l@lehigh.edu Tue Oct 10 10:30:00 1995
From: Bob Patten <z002816b@bcfreenet.seflin.lib.fl.us>
Subject: [4004] Re: TS130
Message-ID: <Pine.3.89.9510100743.A29012-0100000@bcfreenet.seflin.lib.fl.us>

On Mon, 9 Oct 1995, Bill Acito 09-Oct-1995 1448 wrote:

> Anyone know a source for 'narrow' filters for a Kenwood TS130?
> Either original or after market.

The same YK-88C that is used in the TS-430S (I have a 130V & 430S) will work.
Last price known to me from Kenwood was around $80..
>
> Anyone know how to access the ALC circuit, or a drive pot, to
> get one down to QRP levels? If will go below 5 watts now, but I
> want to make the setting less sensative.
>
I have an auxiliary pot mounted on the rear panel that does exactly
this. I found that with the carrier set to reduce power, I could not
hold a constant 1 Watt output. I can easily do it by setting the added
ALC pot to produce ALC voltage at whatever power output I want. Send me
an SASE for schematic: Bob Patten, N4BP
2841 N.W. 112 Terrace
Plantation, FL 33323

> Nobody has a spare auxillary VFO for one laying around, do they?
>
Funny you should ask, never thought anyone would be looking for one, so
didn't advertise it. Mine is basically new since it is sitting in the
closet and used only once or twice since I bought it. Make me an offer...

From qrp-l@lehigh.edu Tue Oct 10 10:30:00 1995
From: joe@westonia.com (Joseph Cooper)
Subject: [4005] Re: Virus Alert
Message-ID: <m0t2eBx-0010KfC@gpu.westonia.com>

While all due care should be taken to protect one's self against computer viruses (which having worked in the hard drive repair business and data recovery field I can assure you are very much part of the computer world today) there was something not quite right about that virus anouncement that appeared today.

If the FCC made an announcement, when where and what reference number do we have for it.

The use of the word 'destroy' implies that the hard drive will be physically damaged. The most that a virus can do is delete or destroy information.

nth-complexity infinite binary loop - I have never encountered this term in 10 years of computing and I have never heard of a CPU function that could cause physical damage to itself.

My point here is that the virus warnnig email sounds like dis-information and its information should be treated with caution until verified by an alternate (and trustworthy) source.

If there is one thing that I have learned its that a bad idea or information can act like a computer virus in a human brain. I just wipes out common sense all together and it can take a long time to recover from the damage.

So keep your virus checkers on.

==
* Joseph Cooper-VE3FMQ QTH-East York-near Toronto Ontario Canada *
* Interests are:-Lowfer/VLF/BCB Radio-Woodworking-Steam Railroads *
* -Nikola Tesla-Antique Radios-Crystal Radios-Travel-Burmese Cats *
* FAX (416) 423-7782 9:00pm to 5:00pm EDST Monday To Friday Only *
==

From qrp-l@lehigh.edu Tue Oct 10 10:30:00 1995
From: cebik@UTKVX.UTCC.UTK.EDU
Subject: [4006] Re: Virus Alert
Message-ID: <Pine.PMDF.3.91.951010080231.543185672B-100000@utkvx.utk.edu>

Joe's caution about the "Good Times" virus alert is well-taken. Of course, avoid files by that name. However, the alert passed through the USA on other circuits twice in the last year. To the best of my knowledge, computer center personnel determined that it was a hoax at that time, designed to raise the anxiety level of internet users. Hence, the probability is low--but not zero--that this alert is simply an extension of that hoax. Please do not pass on the possible hoax with further forwarding of the message until something more definitive is reported from a trustworthy source.

-73-
LB, W4RNL

From qrp-l@lehigh.edu Tue Oct 10 10:30:00 1995
From: "John F. Woods" <jfw@jfwhome.funhouse.com>
Subject: [4008] Re: Warning - read ****this**** VIRUS ALERT (fwd)
Message-ID: <199510101250.IAA15351@jfwhome.funhouse.com>

>receive an e-mail message with the subject line "Good Times", DO NOT read

AAAAARGHGHGHGH!!!!!

There is no such thing as a "Good Times" email virus.
There is no such thing as a "Good Times" email virus.
There is no such thing as a "Good Times" email virus.

This is a hoax which was exposed LONG ago. Please do not spread it any further. Bogus reports are as much of a problem as real viruses themselves.

(Actually, I have heard this referred to as a "meta-virus", in that the virus report infects the minds of computer users and replicated in panicked messages sent to everyone they know...)

Email systems, current ones anyway, do *not* perform any actions based on anything they find in email messages, therefore there is no way for virus "code" in an email message to be executed. Therefore, there are no email viruses.

> A digression: LONG ago, there was an email system for IBM mainframes which supported the ability for email messages to automatically forward themselves when you read the message, which led to the "Christmas" virus which spread by mailing itself to all of the personal mail lists that one defined under the VM mail system. That was a couple of decades ago,

> and got fixed to boot.
>
> We can only hope that authors of future mail systems recall
> this event and do not try to be too clever by half...

However, I will offer a virus report of a real, live verifiable (and verified) virus. Microsoft Word offers the capability for a document to include commands to be executed by Microsoft Word when the document opens. This is a handy feature for making sure that things like tab stops and the like are configured appropriately for a given document, but unfortunately their macro language is way too powerful for the purpose, and therefore someone has developed a text virus for Microsoft Word (and it's the world's first cross-platform virus, since it affects both Macs and PCs!). The defenses against this virus are simple: you can disable the automatic execution feature in Microsoft Word which will prevent the virus from spreading (check your copious manual set to look up how to do this); or you can simply fail entirely to run MS Word (my own personal solution :-). (Because this virus is supplied in "source code", as it were, it is expected that it will mutate rather rapidly as people fiddle with it, but I'll try to look up the current description for a more thorough report.)

I will also see if I can find the contact info for the Computer Emergency Response Team (CERT) and the CIAC (whatever that stands for), which are reliable sources of computer vulnerability information.

73, John, WB7EEL